A.	BY

Application No.	Applicant(s) UCHIKOSHI ET AL.		
11/602,196			
Examiner	Art Unit		
Bradley K. Smith	2891		

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Notice of Allowability	Examiner	Art Unit	
	Bradley K. Smith	2891	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm GHTS. This application is	n this application. If not include unication will be mailed in due	ed course. THIS
1. This communication is responsive to			
2. ☐ The allowed claim(s) is/are 1-22.			
3.	e been received. been received in Application cuments have been received of this communication to file IENT of this application. itted. Note the attached EX es reason(s) why the oath of the submitted. con's Patent Drawing Revie s Amendment / Comment of the header according to 37 C sit of BIOLOGICAL MAT	on No. 10/732,518. ed in this national stage applicate a reply complying with the red AMINER'S AMENDMENT or Nor declaration is deficient. W (PTO-948) attached or in the Office action of the drawings in the front (not the FR 1.121(d).	quirements IOTICE OF
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 11/2 1/66 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 7. ☐ Examiner's	nformal Patent Application Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Affordation with notes. Bradley K. Smith Primary Examiner) owance

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DETAILED ACTION

Allowable Subject Matter

Claims 1-22 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record neither teaches nor suggests with respect to the entire claim (f), forming a plurality of holes in said second and third insulating films; and (h) after said step (g), forming a third wiring over said third insulating film such that said third wiring is connected to said first and second wirings via said holes, wherein before said step (h), said first wiring is in a floating state and said second wiring is connected to said semiconductor substrate, wherein a silicon content of said second insulating film is higher than that of said third insulating film, wherein said step (c) comprises the steps of: (c1) forming a first titanium nitride film over said first insulating film; (c2) forming an aluminum film or aluminum alloy film over said first titanium nitride film; (c3) forming a second titanium nitride film over said aluminum or aluminum alloy film; an (c4) patterning said first titanium nitride film, said aluminum or aluminum alloy film and said second titanium nitride film, and wherein, in said step (d), said second insulating film is connected to said aluminum film or aluminum film or aluminum film or said first and second wirings.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Oshima et al. (US 2002/0100984) disclose a multilevel wiring structure, however it fails to disclose the same method of forming a multilevel wiring structure as the current application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley K. Smith whose telephone number is 571-272-1884. The examiner can normally be reached on 10-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Baumeister can be reached on 571-272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272/1000.

Bradley K Smith Primary Examiner Art Unit 2891